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- Fission reactor materials, including fuels, cladding, core structures, pressure vessels, moderator and control components; fission product behavior.
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- Performance of nuclear waste materials, glasses and ceramics, immobilization of wastes.
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Cover picture: Overview of a sample from deposit 8 showing finer uranium crystals (15 ×). Part of Fig. 5 from the paper by T.C. Totemeier and R.D. Moriani, J. Nucl. Mater 250 (1997) 131–146.

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Buzhinskij, O.I., V.A. Barsuk, I.V. Opimach, V.G. Otrozhenko, A.I. Trazhenkov, W.P. West and N. Brooks, The performance of thick B_4C coatings on graphite divertor tiles in the DIII-D tokamak 233–237 (1996) 787
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Chandramouli, V., S. Anthonysamy, P.R. Vasudeva Rao, R. Divakar and D. Sundararaman, PVA aided microwave synthesis: A novel route for the production of nanocrystalline thoria powder 231 (1996) 213
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Chernikov, V.N., H. Trinkaus and H. Ullmaier, Helium bubbles in nickel annealed at $T > 0.7T_m$ 250 (1997) 103
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Chernov, I.P., A.P. Mamontov, Y.I. Tjurin and Y.P. Cherdantsev, Hydrogen migration in stainless steel and alloys stimulated by ionizing radiation 233–237 (1996) 1118
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Chung, H.M., B.A. Loomis and D.L. Smith, Development and testing of vanadium alloys for fusion applications 239 (1996) 139
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Coppola, R., F. Fiori, E.A. Little and M. Magnani, A microstructural comparison of two nuclear-grade martensitic steels using small-angle neutron scattering 245 (1997) 131
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Cox, B. and H.I. Sheikh, Redistribution of the alloying elements during Zircaloy-2 oxidation 249 (1997) 17
Cox, B., Is zirconium oxide morphology on fuel cladding largely determined by lithium hydroxide concentration effects? 249 (1997) 87
Cox, B., Y.-M. Wong and P. Dume, Effect of fluoride contamination on the growth of ZrO_2 films 250 (1997) 200
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Davis, J.W., K.T. Slattery, D.E. Driemeyer and M.A. Ulrickson, Use of tungsten coating on iter plasma facing components 233–237 (1996) 604
Davis, J.W. and P.D. Smith, ITER material properties handbook 233–237 (1996) 1593
Davis, J.W. and A.A. Haasz, Impurity release from low-Z materials under light particle bombardment 241–243 (1997) 37
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De Pablo, J., I. Casas, J. Giménez, V. Martí and M.E. Torrero, Solid surface evolution model to predict uranium release from unirradiated UO_2 and nuclear spent fuel dissolution under oxidizing conditions 232 (1996) 138
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Diaz Arocas, P., Precipitation kinetics of U(VI) phases formed in high concentrated saline solutions 238 (1996) 96

Díaz de la Rubia, T., J.M. Perlado and M. Tobin, Radiation effects in silicon carbide: High energy cascades and damage accumulation at high temperature 233–237 (1996) 1096
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Diegele, E., M. Beghini, L. Bertini, T. Horie, R. Jakeman, A. Klischenko, R. Matera, M. Merola, D. Munz, M. Seki, S. Suzuki and G. Vieider, Results of the IAEA benchmark on lifetime predictions of first wall components 233–237 (1996) 62
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Engelko, V., A. Andreev, T. Burtseva, O. Komarov, V. Kovalev, B. Ljublin and H. Wuerz, Investigation of the candidate divertor materials erosion at the powerful electron beam 233–237 (1996) 818
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Hayward, P.J. and I.M. George, Dissolution of UO_2 in molten Zircaloy-4 Part 3: Solubility from 2000 to 2500°C 232 (1996) 1
Hayward, P.J. and I.M. George, Dissolution of UO_2 in molten Zircaloy-4 Part 4: Phase evolution during dissolution and cooling of 2000 to 2500°C specimens 232 (1996) 13
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Higashijima, S., H. Kubo, T. Sugie, K. Shimizu, N. Asakura, K. Itami, N. Hosogane, A. Sakasai, S. Konoshima, S. Sakurai and H. Takenaga, Study of carbon impurity generation by chemical sputtering in JT-60U 241–243 (1997) 574
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Hosoya, Y., T. Terai, T. Yoneoka and S. Tanaka, Compatibility of structural materials with molten chloride mixture at high temperature 248 (1997) 348
Höthker, K., W. Bieger, M. Brix, A. Pospieszczyk, R.P. Schorn, B. Schweer, G. Van Oost and R. Weynants, Experimental study on neoclassical properties of the ions in the edge plasma of the tokamak TEXTOR 241–243 (1997) 839
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Howlader, M.M.R., C. Kinoshita, T. Izu, K. Shiiyama and M. Kutsuwada, In situ measurement of electrical conductivity of alumina under electron irradiation in a high voltage electron microscope 239 (1996) 245
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Huang, F.H., Container materials in environments of corroded spent nuclear fuel 231 (1996) 74
Huang, H. and N. Ghoniem, A swelling model for stoichiometric SiC at temperatures below 1000°C under neutron irradiation 250 (1997) 192
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Huang, J., M. Yamawaki, K. Yamaguchi, M. Yasumoto, H. Sakurai and Y. Suzuki, Investigation of vaporization thermodynamics of $SrUO_3$ by means of mass spectrometry 247 (1997) 17
Huang, J., M. Yamawaki, K. Yamaguchi, M. Yasumoto, H. Sakurai and Y. Suzuki, Vaporization properties of $SrUO_3$ and $BaUO_3$ in atmospheres simulating accident conditions 248 (1997) 257
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Hubberstey, P., Pb–17Li and lithium: A thermodynamic rationalisation of their radically different chemistry 247 (1997) 208
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Ibarra, A., R. Vila and F.A. Garner, Optical and dielectric properties of neutron irradiated $MgAl_2O_4$ spinels 233–237 (1996) 1336
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Ishii, T. and T. Mizuno, Thermal conductivity of cesium molybdate Cs_2MoO_4 231 (1996) 242
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Ishino, S., Implications of fundamental radiation damage studies in the research and development of materials for a fusion reactor 239 (1996) 24
Ishiyama, Y., M. Kodama, N. Yokota, K. Asano, T. Kato and K. Fukuya, Post-irradiation annealing effects on microstructure and helium bubbles in neutron irradiated type 304 stainless steel 239 (1996) 90
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Isobe, K., Y. Hatano and M. Sugisaki, Observation of the spatial distribution of hydrogen in Zircaloy-2 oxidized in H_2O steam at 723 K by a technique of tritium microautoradiography 248 (1997) 315
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Iwase, A., L.E. Rehn, P.M. Baldo and L. Funk, Annihilation of freely migrating defects by cascade remnants in Cu–1% Au alloys 238 (1996) 224
Iwase, A., L.E. Rehn, P.M. Baldo and L. Funk, Reduction of freely migrating defect concentrations by cascade remnants in Ni–Si alloys 244 (1997) 147
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Jablonski, D., B. LaBombard, G.M. McCracken, S. Lisgo, B. Lipschultz, I.H. Hutchinson, J. Terry and P.C. Stangeby, Local impurity puffing as a scrape-off layer diagnostic on the Alcator C-Mod tokamak 241–243 (1997) 782
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Jackson, G.L., E.A. Lazarus, G.A. Navratil, R. Bastasz, N.H. Brooks, D.T. Garnier, K.L. Holtrop, J.C. Phillips, E.S. Marmar, T.S. Taylor, D.M. Thomas, W.R. Wampler, D.G. Whyte and W.P. West, Enhanced performance discharges in the DIII-D tokamak with lithium wall conditioning 241–243 (1997) 655
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Janeczek, J., R.C. Ewing, V.M. Oversby and L.O. Werme, Uraninite and UO_2 in spent nuclear fuel: a comparison 238 (1996) 121
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Jimbou, R., K. Kodama, M. Saidoh, Y. Suzuki, M. Nakagawa, K. Morita and B. Tsuchiya, Thermal conductivity and retention characteristics of composites made of boron carbide and carbon fibers with extremely high thermal conductivity for first wall armour 241–243 (1997) 1175

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Kalin, B.A., V.T. Fedotov, O.N. Sevryukov, A.E. Grigoryev, A.N. Plyuschev, V.M. Ivanov and Yu.S. Strebkov, Application of amorphous and microcrystalline filler metals for brazing of beryllium with metals 233–237 (1996) 945
Kalin, B.A., I.I. Chernov, A.N. Kalashnikov and V.V. Timofeyev, Influence of alloying elements in Ni and Fe on ion-implanted helium behavior 233–237 (1996) 1142
Kalinin, G., W. Gauster, R. Matera, A.-A.F. Tavassoli, A. Rowcliffe, S. Fabritsiev and H. Kawamura, Structural materials for ITER in-vessel component design 233–237 (1996) 9
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Kuramoto, E., H. Abe, M. Takenaka, F. Hori, Y. Kamimura, M. Kimura and K. Ueno, Positron annihilation lifetime study of irradiated and deformed Fe and Ni 239 (1996) 54
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Livshits, A.I., M.E. Notkin, A.A. Samartsev and M.N. Solovyov, Interactions of low energy hydrogen ions with niobium: effects of nonmetallic overlayers on reemission, retention and permeation 233–237 (1996) 1113
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Mathon, M.H., A. Barbu, F. Dunstetter, F. Maury, N. Lorenzelli and C.H. de Novion, Experimental study and modelling of copper precipitation under electron irradiation in dilute *Fe*Cu binary alloys 245 (1997) 224

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Matsui, Y., M. Niimi, T. Hoshiya, F. Sakurai, S. Jitsukawa, T. Tsukada, M. Ohmi, H. Sakai, R. Oyamada and T. Onchi, Mechanical properties of austenitic stainless steels irradiated at 323 K in the Japan Materials Testing Reactor 233–237 (1996) 188

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Matzke, Hj. and L.M. Wang, High-resolution transmission electron microscopy of ion irradiated uranium oxide 231 (1996) 155
Matzke, Hj. and V. Rigato, Hydrogen profiles at the surface of leached Synroc [Authors' reply to 'Comments on the paper by Hj. Matzke et al., Nucl. Instrum. Meth. B45 (1990) 194'] 231 (1996) 260
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Morishita, K., N. Sekimura and T. Diaz de la Rubia, A molecular dynamics study for ultrafast process of radiation damage in materials 248 (1997) 400
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Nagatsu, M., N. Takada, M. Akiba, K. Nakamura and M. Shimada, Effect of electron and ion beam irradiation on power reflectivity of C/C first wall materials 233–237 (1996) 1284
Nagatsu, M., N. Takada, I. Tsuchikura, S. Sasaki, M. Akiba and K. Nakamura, Effect of ion-beam irradiation on power reflectivity of boron-doped CFC materials 241–243 (1997) 1180
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Nakamura, K., see Jimbou, R. 233–237 (1996) 781
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Nakasuga, M., see Sano, F. 241–243 (1997) 961
Nakata, K., S. Ikeda, S. Hamada and A. Hishinuma, Microstructural development due to long-term aging and ion irradiation behavior in weld metals of austenitic stainless steel 233–237 (1996) 192
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Odegard, B.C. and B.A. Kalin, A review of the joining techniques for plasma facing components in fusion reactors 233–237 (1996) 44
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Pareige, P., R.E. Stoller, K.F. Russell and M.K. Miller, Atom probe characterization of the microstructure of nuclear pressure vessel surveillance materials after neutron irradiation and after annealing treatments 249 (1997) 165
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Pashchenko, A.B., H. Wienke and S. Ganesan, FENDL: International reference nuclear data library for fusion applications 233–237 (1996) 1601
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Peng, L.L., B.Q. Deng, J.L. Luo, S.K. Yang, M. Wang, E.Y. Wang and S.J. Qian, Study of helium transport in HL-1M edge plasma region 241–243 (1997) 883
Peng, Z., L. Qiang, L. Cuiwen, L. Jieping, Q. Shangjie, F. Shuiquan, Y. Ping, X. Jun, L. Kehua, L. Junlin, H. Wenyu, C. Zeng, Z. Nianman, W. Quanming, L. Jie, H. Ming, Z. Yunze, Z. Qingchun and L. Cuixian, The first results of siliconization on SWIP-RFP device 241–243 (1997) 1008
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Polosukhin, B.G., E.M. Sulimov, A.P. Zyrianov, L.I. Menkin, V.F. Lisovoy and S.Yu. Mitrofanov, Complex research facility to study radiation effect on the interaction of hydrogen-bearing media with candidate materials under irradiation 233–237 (1996) 1573
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Porter, L.J., J. Li and S. Yip, Atomistic modeling of finite-temperature properties of β-SiC. I. Lattice vibrations, heat capacity, and thermal expansion 246 (1997) 53
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Terai, T., T. Yoneoka, H. Tanaka, A. Suzuki, S. Tanaka, M. Nakamichi, H. Kawamura, K. Miyajima and Y. Harada, Compatibility of yttria (Y_2O_3) with liquid lithium 233–237 (1996) 1421
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Tokunaga, K., Y. Miura, N. Yoshida, T. Muroga, H. Kurishita, Y. Kitsunai and H. Kayano, High heat load properties of TiC dispersed Mo alloys 241–243 (1997) 1197
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Vidhya, R., M.P. Antony and P.R. Vasudeva Rao, Thermodynamic studies of uranium–gadolinium–carbon system through the carbothermic reduction of the oxides 247 (1997) 158
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Wang, W., W. Jacob and J. Roth, Oxidation and hydrogen isotope exchange in amorphous, deuterated carbon films 245 (1997) 66
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Wäppling, D., A.R. Massih and P. Ståhle, A model for hydride-induced embrittlement in zirconium-based alloys 249 (1997) 231
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Watanabe, S., H. Tsuchida, Y. Hidaka, N. Sakaguchi, S. Ohnuki and H. Takahashi, Effect of additional minor elements on void nucleation in stainless steels during simultaneous irradiation with helium ions and electrons 233–237 (1996) 177
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Watanabe, S., see Kinoshita, H. 239 (1996) 205
Watanabe, S., N. Sakaguchi, K. Kurome, M. Nakamura and H. Takahashi, On the mechanism of radiation-induced segregation 240 (1997) 251
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Weber, W.J., R.C. Ewing and A. Meldrum, The kinetics of alpha-decay-induced amorphization in zircon and apatite containing weapons-grade plutonium or other actinides 250 (1997) 147
Wechsler, M.S., C. Lin, W.F. Sommer, L.L. Daemen and P.D. Ferguson, Radiation effects in materials for accelerator-driven neutron technologies 244 (1997) 177
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Wronkiewicz, D.J., J.K. Bates, S.F. Wolf and E.C. Buck, Ten-year results from unsaturated drip tests with UO_2 at 90°C: implications for the corrosion of spent nuclear fuel 238 (1996) 78
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Würz, H., see Koniges, A.E. 241–243 (1997) 244
Wyllie II, W.E., D. Steiner and D.J. Duquette, The effect of water radiolysis on the stress corrosion behavior of UNS S31600 stainless steel at 50 and 90°C 233–237 (1996) 1372

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Yakimov, K.I., see Voitsenya, V.S. 233–237 (1996) 1239
Yakushin, V.L., B.A. Kalin, N.V. Kraskovskaya, S.N. Votinov and V.I. Vasiliev, Investigation of vanadium alloys in CTR plasma disruption-simulation experiments 233–237 (1996) 390
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Yamaki, T., Y. Suzuki, A. Chiba, M. Nakagawa, Y. Gotoh, R. Jimbou and M. Saidoh, Erosion and thermal desorption characteristics of 1D-CF/B_4C composite 241–243 (1997) 1132
Yamaki, T., Y. Nakashiba, K. Asai, K. Ishigure, S. Seki, S. Tagawa and H. Shibata, Exciplex emission from amphiphilic polysilanes bearing ammonium moieties 248 (1997) 369
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Yamamoto, T., H. Kurishita, T. Matsushima and H. Kayano, Development of innovative indentation system and its application to cyclic ball indentation test for small-sized specimens 239 (1996) 219
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Yamamoto, T., H. Suwarno, H. Kayano and M. Yamawaki, Development of new reactor fuel materials: hydrogenation properties of U–Th–Zr alloys and neutron irradiation effects on their hydrides 247 (1997) 339
Yamamura, Y., see Ono, T. 232 (1996) 52
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Yamanaka, S., Y. Kashiwara, H. Sugiyama and M. Katsura, Influence of interstitial oxygen and nitrogen on hydrogen solubility in vanadium 247 (1997) 244
Yamanaka, S., K. Tsujimoto, T. Yamanaka, M. Uno, M. Miyake and M. Katsura, High-temperature reaction of (U, Gd)O_2 with zirconium 247 (1997) 252
Yamanaka, S., see Yamada, K. 247 (1997) 289
Yamanaka, S., M. Miyake and M. Katsura, Study on the hydrogen solubility in zirconium alloys 247 (1997) 315
Yamanaka, S., Y. Sannomiya, T. Minamiguchi and M. Katsura, Study on the Nb–O–H ternary system 247 (1997) 328
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Yamashita, T., see Nitani, N. 247 (1997) 59
Yamashita, T., N. Nitani, T. Tsuji and T. Kato, Thermal expansion of neptunium–uranium mixed oxides 247 (1997) 90
Yamauchi, Y., T. Hino, K. Koyama, Y. Hirohata and T. Yamashina, Hydrogen retention properties of low Z and high Z plasma facing materials 241–243 (1997) 1016
Yamauchi, Y., see Yanagihara, H. 241–243 (1997) 1098
Yamawaki, M., J. Huang, K. Yamaguchi, M. Yasumoto, H. Sakurai and Y. Suzuki, Investigation of the vaporization of $BaUO_3$ by means of mass spectrometry 231 (1996) 199
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Yamawaki, M., A. Suzuki, M. Yasumoto and K. Yamaguchi, Sweep gas chemistry effect on lithium transport from ceramic breeder blanket materials 247 (1997) 11
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Efthimion, D. Ernst, N. Fisch, R.J. Fonck, E. Fredrickson, G.Y. Fu, H.P. Furth, C.A. Gentile, M. Gibson, J. Gilbert, B. Grek, L.R. Grisham, G. Hammett, R.J. Hawryluk, H.W. Herrmann, K.W. Hill, J. Hosea, A. Janos, D.L. Jassby, F.C. Jobes, D.W. Johnson, L.C. Johnson, J. Kamperschroer, M. Kalish, H. Kugel, J. Langford, S. Langish, P.H. LaMarche, B. LeBlanc, F.M. Levinton, J. Machuzak, R. Majeski, J. Manikam, D.K. Mansfield, E. Mazzucato, K.M. McGuire, R. Mika, G. McKee, D.M. Meade, S.S. Medley, D.R. Mikkelsen, H.E. Mynick, D. Mueller, A. Nagy, R. Nazikian, M. Ono, D.K. Owens, H. Park, S.F. Paul, G. Pearson, M. Petrov, C.K. Phillips, S. Raftopoulos, A. Ramsey, R. Raucci, M.H. Redi, G. Rewoldt, J. Rogers, A.L. Roquemore, E. Ruskov, S.A. Sabbagh, G. Schilling, J.F. Schivell, G.L. Schmidt, S.D. Scott, S. Sesnic, B.C. Stratton, J.D. Strachan, T. Stevenson, D.P. Stotler, E. Synakowski, H. Takahashi, W. Tang, G. Taylor, W. Tighe, J.R. Timberlake, A. von Halle, S. von Goeler, R.T. Walters, R.B. White, J.R. Wilson, J. Winston, K.L. Wong, K.M. Young, M.C. Zarnstorff and S.J. Zweben 241–243 (1997) 214

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Hydrogen profiles at the surface of leached Synroc [Authors' reply to 'Comments on the paper by Hj. Matzke et al., Nucl. Instrum. Meth. B45 (1990) 194'], Hj. Matzke and V. Rigato 231 (1996) 260
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Hydrogen profiles at the surface of leached Synroc [Authors' reply to 'Comments on the paper by Hj. Matzke et al., Nucl. Instrum. Meth. B45 (1990) 194'], Hj. Matzke and V. Rigato 231 (1996) 260
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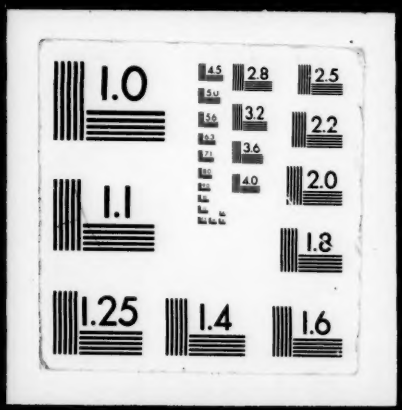
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